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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
09/685,131	10/10/2000	Brandon Mitchell Burrell	42626/204671	4846

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EXAMINER

LEZAK, ARRIENNE M

ART UNIT	PAPER NUMBER
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2143

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DATE MAILED: 02/12/2004

Please find below and/or attached an Office communication concerning this application or proceeding.

Office Action Summary

Application No.

09/685,131

Applicant(s)

BURRELL, BRANDON MITCHELL

Examiner

Arrienne M. Lezak

Art Unit

2143

-- The MAILING DATE of this communication appears on the cover sheet with the correspondence address --
Period for Reply

A SHORTENED STATUTORY PERIOD FOR REPLY IS SET TO EXPIRE 3 MONTH(S) FROM THE MAILING DATE OF THIS COMMUNICATION.

- Extensions of time may be available under the provisions of 37 CFR 1.136(a). In no event, however, may a reply be timely filed after SIX (6) MONTHS from the mailing date of this communication.
- If the period for reply specified above is less than thirty (30) days, a reply within the statutory minimum of thirty (30) days will be considered timely.
- If NO period for reply is specified above, the maximum statutory period will apply and will expire SIX (6) MONTHS from the mailing date of this communication.
- Failure to reply within the set or extended period for reply will, by statute, cause the application to become ABANDONED (35 U.S.C. § 133). Any reply received by the Office later than three months after the mailing date of this communication, even if timely filed, may reduce any earned patent term adjustment. See 37 CFR 1.704(b).

Status

- 1) ☐ Responsive to communication(s) filed on ____.
- 2a) ☐ This action is **FINAL**. 2b) ☒ This action is non-final.
- 3) ☐ Since this application is in condition for allowance except for formal matters, prosecution as to the merits is closed in accordance with the practice under *Ex parte Quayle*, 1935 C.D. 11, 453 O.G. 213.

Disposition of Claims

- 4) ☒ Claim(s) 1-63 is/are pending in the application.
- 4a) Of the above claim(s) ____ is/are withdrawn from consideration.
- 5) ☐ Claim(s) ____ is/are allowed.
- 6) ☒ Claim(s) 1-63 is/are rejected.
- 7) ☐ Claim(s) ____ is/are objected to.
- 8) ☐ Claim(s) ____ are subject to restriction and/or election requirement.

Application Papers

- 9) ☐ The specification is objected to by the Examiner.
- 10) ☒ The drawing(s) filed on 10 October 2000 is/are: a) ☒ accepted or b) ☐ objected to by the Examiner.
Applicant may not request that any objection to the drawing(s) be held in abeyance. See 37 CFR 1.85(a).
Replacement drawing sheet(s) including the correction is required if the drawing(s) is objected to. See 37 CFR 1.121(d).
- 11) ☐ The oath or declaration is objected to by the Examiner. Note the attached Office Action or form PTO-152.

Priority under 35 U.S.C. § 119

- 12) ☐ Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f).
- a) ☐ All b) ☐ Some * c) ☐ None of:
- ☐ Certified copies of the priority documents have been received.
 - ☐ Certified copies of the priority documents have been received in Application No. ____.
 - ☐ Copies of the certified copies of the priority documents have been received in this National Stage application from the International Bureau (PCT Rule 17.2(a)).

* See the attached detailed Office action for a list of the certified copies not received.

Attachment(s)

- | | |
|--|---|
| 1) <input checked="" type="checkbox"/> Notice of References Cited (PTO-892) | 4) <input type="checkbox"/> Interview Summary (PTO-413)
Paper No(s)/Mail Date. ____. |
| 2) <input type="checkbox"/> Notice of Draftsperson's Patent Drawing Review (PTO-948) | 5) <input type="checkbox"/> Notice of Informal Patent Application (PTO-152) |
| 3) <input checked="" type="checkbox"/> Information Disclosure Statement(s) (PTO-1449 or PTO/SB/08)
Paper No(s)/Mail Date <u>2</u> . | 6) <input type="checkbox"/> Other: ____. |

DETAILED ACTION

Claim Rejections - 35 USC § 102

1. The following is a quotation of the appropriate paragraphs of 35 U.S.C. 102 that form the basis for the rejections under this section made in this Office action:

A person shall be entitled to a patent unless –

(e) the invention was described in (1) an application for patent, published under section 122(b), by another filed in the United States before the invention by the applicant for patent or (2) a patent granted on an application for patent by another filed in the United States before the invention by the applicant for patent, except that an international application filed under the treaty defined in section 351(a) shall have the effects for purposes of this subsection of an application filed in the United States only if the international application designated the United States and was published under Article 21(2) of such treaty in the English language.

2. Claims 1-9, 16, 22-30, 37, 43-51 and 58 are rejected under 35 U.S.C. 102(e) as being anticipated by US Patent 6,065,041 to Lum.

3. Regarding Claims 1, 22 and 43, Lum discloses a system, method and computer program product for redirecting the display of information from a computer program to a remote display terminal, (Abstract), comprising:

- a display management module stored on a computer-readable medium in communication with an output of the computer program and the remote display terminal for displaying data from the computer program on a display terminal, (Col. 2, lines 14-46);
- data modules stored on a computer-readable medium containing text data and graphical data representations used by the computer program to display information on a display terminal, (Col. 19, lines 63-67 and Col. 20, lines 1-47);

- an output redirection handler stored on a computer-readable medium in communication with said display management module, (Col. 3, lines 12-47);
- a data communication link connected between said output redirection handler and the remote display terminal, (Fig. 2);
- wherein the display management module receives commands to display data from the computer program, and wherein said display management module, based on the commands from the computer program, provides commands and data from said data modules to said output redirection handler for displaying information on the remote display terminal, (Col. 2, lines 31-47).

4. Therefore, this reference may reasonably be read to teach or describe every element or claim limitation of Claims 1, 22 and 43.

5. Regarding Claims 2, 3, 23, 24, 44 and 45, Lum discloses a system, method and computer program product comprising a remote display handler stored on a computer-readable medium in communication with the data communication link and the remote display terminal, (per pending Claim 2), (Fig. 2 and Col. 3, lines 44-47), wherein said display management module provides data and commands based on a predetermined set of commands, and wherein said output redirection handler communicates with said display management module using the predetermined set of commands and provides the commands and data to the remote display handler for display on the remote display terminal, (per pending Claims 3, 23, 24, 44 and 45), (Col. 3, lines 13-47 and Col. 7, lines

47-62). Therefore, this reference may reasonably be read to teach or describe every element or claim limitation of Claims 2, 3, 23, 24, 44 and 45.

6. Regarding Claims 4, 25 and 46, Lum discloses a system, method and computer program product wherein said data communication link is a data communication link selected from the group consisting of parallel, serial and network, and wherein said output redirection handler receives commands and data from said display management module and formats the commands and data for transmission across said data communication link, (Col. 17, lines 19-38; Col. 18, lines 58-67; and Col. 19, lines 1-22). Therefore, this reference may reasonably be read to teach or describe every element or claim limitation of Claims 4, 25 and 46.

7. Regarding Claims 5, 26 and 47, Lum discloses a system, method and computer program product wherein said remote display handler receives commands and data from said output redirection handler and controls the remote display terminal to display the data, (Fig. 2; Col. 2, lines 42-46; and Col. 3, lines 13-47). Therefore, this reference may reasonably be read to teach or describe every element or claim limitation of Claims 5, 26 and 47.

8. Regarding Claims 6, 27 and 48, Lum discloses a system, method and computer program product wherein said remote display handler stores a current attribute value representing a color attribute of the characters being displayed on the remote display terminal such that subsequent commands to display data on the remote display terminal that do not alter the attribute do not require transmittal of the attribute variable, (Col. 4, lines 26-36; Col. 5, lines 30-39; Col. 8, lines 63-67; and Col. 9, lines 1-37). Therefore,

this reference may reasonably be read to teach or describe every element or claim limitation of Claims 6, 27 and 48.

9. Regarding Claims 7, 28 and 49, Lum discloses a system, method and computer program product wherein said remote display handler stores a value representing the current position of a cursor on the remote display terminal such that subsequent commands to display data on the remote display terminal do not require data concerning cursor position, (Col. 4, lines 26-36; Col. 5, lines 30-39; Col. 8, lines 63-67; and Col. 9, lines 1-37). Therefore, this reference may reasonably be read to teach or describe every element or claim limitation of Claims 7, 28 and 49.

10. Regarding Claims 8, 29 and 50, Lum discloses a system, method and computer program product wherein at least one data module is a language data module including data strings representing language data, (Col. 20, lines 26-42), wherein each data string is stored in said data modules and designated by a token, (Col. 8, lines 44-61), and wherein to display a data string, said display management module receives a token associated with the data string from the computer program and a command to display the data string and based on the token accesses said language data module, retrieves the data string associated with the token, and outputs the data string and a command to display the data string to said output redirection handler, (Col. 7, lines 46-63).

Therefore, this reference may reasonably be read to teach or describe every element or claim limitation of Claims 8, 29 and 50.

11. Regarding Claims 9, 30 and 51, Lum discloses a system, method and computer program product comprising a plurality of language data modules associated with said

display management module, wherein each language data module includes data strings representing language data in a selected language, (Col. 20, lines 26-42 and Col. 8, lines 44-61); and a main language module header stored on a computer-readable medium and associated with said display management module comprising individual pointers indicating the location in a computer-readable storage medium in which each language data module is located, (Col. 7, lines 46-67 and Col. 8, lines 1-62), wherein to display a data string in a selected language, said display management module receives a token associated with the data string, wherein said display management module accesses said main language module header and retrieves the pointer associated with the language data module corresponding to a pre-selected desired language for displaying the data string, and wherein said display management module using the pointer, accesses the language data module, retrieves the data string associated with the token, and outputs the data string in the desired language and a command to display the data string to said output redirection handler, (Col. 7, lines 46-67 and Col. 8, lines 1-62). Therefore, this reference may reasonably be read to teach or describe every element or claim limitation of Claims 9, 30 and 51.

12. Regarding Claims 16, 37 and 58, Lum discloses a system, method and computer program product wherein to display a data string, said display management module receives a token associated with the data string and a command to display the data string from the computer program and accesses the location in the string data area where the data string is located and sequentially outputs the characters of the data string along with a command to display the data string to said output redirection handler,

(Col. 7, lines 46-67 and Col. 8, lines 1-62). Therefore, this reference may reasonably be read to teach or describe every element or claim limitation of Claims 16, 37 and 58.

Claim Rejections - 35 USC § 103

13. The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all obviousness rejections set forth in this Office action:

(a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are such that the subject matter as a whole would have been obvious at the time the invention was made to a person having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negated by the manner in which the invention was made.

14. Claims 10-15, 17-21, 31-36, 38-42, 52-57 and 59-63 are rejected under 35 U.S.C. 103(a) as being unpatentable over further consideration of US Patent 6,065,041 to Lum. Lum is relied upon for all teaching disclosed herein above.

15. Regarding Claims 10, 11, 17, 31, 32, 38, 52, 53 and 59, Lum discloses the incorporation of language key parameter which outputs, locally and remotely, a localized string to the screen, (Col. 7, lines 46-47), a language module, (Col. 20, lines 26-33), and a module for configuring the generic screen descriptions to match the selected language type, (Col. 20, lines 26-33), which presumably inherently includes matching font types. Lum further teaches Variable Content which allows for client choice concerning layout and attributes, including, but not limited to font, (Col. 5, lines 30-39).

16. Lum does not specifically disclose the use of 256 standard ASCII and extended ASCII characters, (per pending Claims 10, 17, 31, 38, 52 and 59), or double byte characters, (per pending Claims 11, 32 and 53).

17. It would have been obvious to one of ordinary skill in the art at the time of invention by Applicant to implement multi-byte character sets, (MBCS), and Unicode in addition to a default implementation of ASCII for localization of the display manager as disclosed within Lum, (as noted herein above). Thus, Claims 10, 11, 31, 32, 52 and 53 are unpatentable over further consideration of the teachings of Lum.

18. Regarding Claims 12-15, 33-36 and 54-57, in addition to those teachings of Lum already disclosed, as enumerated herein above, Lum further teaches the use of a key associated with each text string. Said keys are manipulated, stored and retrieved as needed, (Col. 8, lines 44-60).

19. Lum does not specifically disclose the storage, (in the string data area), of standard and extended ASCII characters having ASCII codes less than a selected escape code, and the encoding and storage, (in the string data area), of standard and extended ASCII characters having codes greater than or equal to the escape code or ASCII characters identifying double-byte characters, (per pending Claims 12, 33 and 45), or ASCII characters identifying the start of a 16 bit double byte character, (per pending Claims 13, 34 and 55).

20. Lum also does not specifically disclose the sequential encoding and storage of 16 bit values representing double byte characters, wherein font data associated with the double byte characters is stored in double byte character font data area, and wherein at least one extended ASCII character is encoded in said string data area with an escape code preceding the ASCII representation of the extended ASCII character, and wherein if the extended ASCII character is not displayable with extended ASCII character font

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data stored in said font module, data for the extended ASCII character is stored in said extended ASCII font data area, (per pending Claims 14, 35 and 56).

21. Lum also does not specifically disclose a system wherein the double byte characters are sequentially encoded such that the first double byte character is represented by a two-byte code having a first byte that is one value greater than the escape code and a second byte equal to zero, and wherein remaining unique double byte characters are encoded with sequential 16 bit code values, (per pending Claims 15, 36 ad 57).

22. It would have been obvious to one of ordinary skill in the art at the time of invention by Applicant to implement multi-byte character sets, (MBCS), and Unicode in addition to a default implementation of ASCII for localization of the display manager as disclosed within Lum, (as noted herein above). Further, as Lum discloses the manipulation, storage and retrieval of keys, (representing text strings), identifying all data and screens, (Col. 8, lines 44-62), it would be obvious to incorporate a system, in which said multitude of characters are sequentially encoded and stored, so as to better organize the vast amount of information needed. Thus, Claims 12-15, 33-36 and 54-57 are unpatentable over further consideration of the teachings of Lum.

23. Regarding Claims 18-21, 39-42 and 60-63, Lum discloses the use of modules to store information, as noted herein above. Lum further indicates that such modules encompass Variable Content, making it possible for the client to determine screen attributes and layout, (Col. 5, lines 30-39). Lum further teaches arbitrary customization,

which includes, but is not limited to the ability to redirect output to more than one destination, (Col. 7, lines 46-62).

24. For display purposes, Lum does not specifically teach the use of a logo module, (per pending Claims 18, 39 and 60), a progress bar, (per pending Claims 19, 40 and 61), a defined boxed area, (per pending Claims 20, 41 and 62), or a scroll capability solely within the defined box area, (per pending Claims 21, 42 and 63).

25. It would have been obvious to one of ordinary skill in the art at the time of invention by Applicant to provide the user with such basic layout options as logos, progress bars, and defined boxed areas containing scrolling information. Further, the use of Variable Content within Lum, (Col. 5, lines 30-39), obviously encompasses all layout and attribute options available, including those specifically enumerated by Applicant. Thus, Claims 18-21, 39-42 and 60-63 are also unpatentable over further consideration of the teachings of Lum.

Conclusion

26. The prior art made of record and not relied upon is considered pertinent to applicant's disclosure:

US Patent 5,812,964 to Finger;

US Patent 5,974,454 to Apfel;

US Patent 6,014,701 to Chaddha;

US Patent 5,758,154 to Qureshi;

US Patent 5,548,759 to Lipe; and

US Patent 5,754,858 to Broman.


Any inquiry concerning this communication or earlier communications from the examiner should be directed to Arrienne M. Lezak whose telephone number is (703)-305-0717. The examiner can normally be reached on M-F 8:30-4:30.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, David A. Wiley can be reached on (703)-308-5221. The fax phone number for the organization where this application or proceeding is assigned is 703-872-9306.

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see <http://pair-direct.uspto.gov>. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free).

Arrienne M. Lezak
Examiner
Art Unit 2143

AML



DAVID WILEY
SUPERVISORY PATENT EXAMINER
TECHNOLOGY CENTER 2100

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